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**ABSTRACT:** Collection command applicators improve the productivity of human knowledge workers by enabling them to automatically process of large numbers of collections of arbitrary computer files. In operation, collection command applicators dynamically recognize interesting collections, calculate an optimal execution dependency visit order, determine an optimal parallel execution order, and apply arbitrary computer commands to the recognized collections in accordance with the calculated execution orderings. Collection command applicators thereby make it possible to process large numbers of collections in automated, scalable ways that were not previously possible.